

FORMULATION AND EVALUATION OF HERBAL LIPSTICK USING NATURAL EDIBLE COLOR

**Amita Kshirsagar^{1*}, Baburao N. Chandakavthe², Snehal Mane³, Amruta Dalal⁴,
Nishigandha Waykule⁵**

^{1,3,4,5}Students, D.S.T.S Mandal's College of Pharmacy, Solapur- 413004 Maharashtra, India.

²Assistant Prof., D.S.T.S Mandal's College of Pharmacy, Solapur- 413004 Maharashtra, India.

Article Received on
30 March 2022,

Revised on 20 April 2022,
Accepted on 10 May 2022

DOI: 10.20959/wjpr20226-24173

*Corresponding Author

Amita Kshirsagar

Students, D.S.T.S Mandal's

College of Pharmacy,

Solapur- 413004

Maharashtra, India.

ABSTRACT

The demand of herbal cosmetic is increasing steeply as they are skin friendly with no side effects. Normally herbal cosmetics are also referred to as natural cosmetics. (Saha 2006) Herbal cosmetics are formulated by preparing a natural base first in which one or more natural ingredients are incorporated properly. Herbal cosmetics are the most recent trend in the field of beauty and fashion. These beauty products supply proper nutrients, enhance health and ensure user satisfaction compared to the synthetic cosmetics. Human skin acts as protective barrier, through which natural ingredients penetrate. The objective of this work is to formulate and evaluate herbal lipstick from using edible color pigments and minimize the side effects of synthetic formulations.

KEYWORDS: Herbal cosmetic, Color, Lipstick, Formulation.

INTRODUCTION

It is a cosmetic product to enhance women's beauty. Herbal lipsticks are widely used to impart an attractive color, Texture and protects to lips. Lipstick is a containing waxes, oils, pigments and dyes, alcohol and fragrance, preservatives and antioxidants, colors, surfactants. These lipstick preparations do not damage to our lips and no side effect. They involve a colors changes as well as shine and smooth out of wrinkles and and folds on lips. It is a most famous cosmetics items and available in different styles, design and packaging of lipstick. Lipstick having many advantages it should be protects lips from dryness and cracking. It

brightens your smile and provides hydration to our lips. It should be free from grittiness should be non-drying required plasticity.^[1] Herbal cosmetics are the latest trend in the field of beauty and fashion. The herbal cosmetics industry is experiencing a rising graph for its market and products which are being sold the world over. Herbal products are gaining popularity as nowadays most women prefer natural products over chemicals for their personal care to enhance their beauty as these product supply the body with nutrients and enhance health and provide satisfaction as these are free from synthetic chemicals and have relatively less side effects compared to the synthetic cosmetics. Lipstick is cosmetic preparation used to color the lip and from protect lips external environment.^[2] Cosmetic are substances used to enhance the appearance of the human body. Lipstick formulation as it determines the aesthetic value of lipstick. Colorant can be from synthetic and natural sources.

Ideal Characteristics of Good Lipstick

1. It should be non-irritant.
2. It should have required plasticity.
3. It should non-toxic.
4. It should not dry on storage.
5. It should maintain lip color for longer period after its application.
6. It should have pleasant taste, odor and flavor.^[3]

MATERIALS AND METHODS

Castor oil, Olive oil, Bees wax and Perfume this Chemicals Collected by Department of Pharmaceutics, D.S.T.S Mandal's College of Pharmacy, Solapur.

Lemon juice, Turmeric powder and Vitamin E capsule were purchased from local market of Solapur.

Castor oil

Also known as ricinus oil is obtained from the seeds of castor oil plant *Ricinus communis* and characterized as colorless to very pale yellow. The high viscosity of castor oil could prevent lipstick from smearing off, enhance the stability towards oxidation degradation, and be compatible with other ingredients. Castor oil was commonly utilized in hairstyling. Castor oil physical and chemical properties can vary with the method of extraction. Cold –pressed castor oil has low acid value, low iodine value and a slightly higher saponification value than solvent –extracted oil and it is lighter in color.^[4]

Bees wax

Is a natural wax from honeybees of the genus *Apis*, and it is recognized as a mandatory ingredient in the formulation of lipstick. It is used as a glazing agent for a glossy look as well as to harden the texture of the lipsticks, beeswax also helps to retain moisture for dry and chapped lips, various research studies have also discovered that beeswax contain small amount of natural antibacterial agents and can help prevent painful inflammation that comes with an infection. Different types of wax are used to harden lipstick formulation.

Olive oil- is one of the major components of olive fruit, which are grown on the tree (*Olea europaea*) olive oil has been used as a blending agent in the formulation of lipstick. It has also been utilized as base for the preparation of water in olive oil (W/O) types of lipstick. Olive oil has as inhibitor effects on sun – induced cancer development when applied on the skin after the sun exposure.^[5]

Turmeric -is commonly known as Indian saffron.

Biological source –It consist of dried, as well as fresh rhizomes of the plant *curcuma longa* Linn.

Family – Zingiberaceae scientific classification.

Kingdom – Plantae.

Perfume – It is used as fragrance.

It is used as create a more natural aroma.

Vitamin E –is the ingredient of the herbal lipstick.

Used to preventing and treating fine fine lines and wrinkles.

It is making lips softer.

Preparation Method

The herbal lipstick was formulated as per general method of Lipstick formulation. In this formulation, white bees wax, Coconut oil, olive oil, were melted in porcelain dish on heating on magnetic stirrer with decreasing order of their melting point. Added to the Lemon juice and Vitamin E capsule. Edible coloring matter like turmeric powder mixed with castor oil and heated. Both phase with mixed with same temperature.

Table no. 1: Formulation Table of Herbal Lipstick.

Sr.no.	Ingredients	Quantity taken	Importance of Ingredients
1.	Castor oil	1ml	Moisturing agent
2.	Coconut oil	1ml	Hard wax
3.	Olive oil	1ml	Soft wax / Bending agent and lipstick base
4.	Bees wax	1gm	Hard wax
5.	Lemon juice	2ml	Antioxidant
6.	Vitamin E capsule	1 capsule	Antioxidant
7.	Turmeric powder	2gm	Coloring agent / Antimicrobial agent
8.	Perfume	q.s	Flavoring agent



Evaluation of Herbal lipstick

1. Color and Texture

Formulated lipsticks are yellow in color and smooth texture.

2. pH

The pH of formulated Herbal lipstick was determined using digital pH meter.

3. Solubility test

The formulated Herbal lipsticks was dissolved in various solvents observe the solubility.

4. Determination of Melting point

Determination of melting point is an important parameter for lipstick formulation; as it is an indication of the limit of safe storage. It was determined by capillary tube method. Melt approximately 50mg sample of lipstick and filled into glass capillary tube open at ends. Capillary was cooled with ice for 2hr and fasted with thermometer. Thermometer with

capillary was deep in the beaker containing full of water which was placed on heating containing full of water which was placed on heating plate with magnetic stirrer. Heating and stirring started slowly at fixed speed. The temperature at which material move along the capillary tube was considered as melting point.

5. Breaking point

Breaking point was done to determine the strength of lipstick. The lipstick was held horizontally in a socket inch away from the edge of support. The weight was gradually increased by a specific value (10gm) at specific interval of 30second and weight at which breaks was considered as the breaking point.

6. Perfume stability test: Perfume stability can also be assessed by storing were tested after 30days and to record the fragrance.

7. Skin irritation test

It is carried out by applying product on the skin for 10 minutes.

RESULT AND DISCUSSION

The present work formulation and evaluation of herbal lipstick was aimed to formulate a lipstick using herbal ingredients with a hope to minimize the side effects as produced by the available synthetic ones. Herbal lipstick has been tremendous boost in use of cosmetic by woman.

It also help the medicinal that softening, reduce inflammation, moisturizing the lip.

Sr.No.	Parameter	Herbal lipstick Formulation	Marketed Formulation	Standard values
1.	Color	Yellow	Yellow	-
2.	Texture	Smooth	Smooth	Smooth
3.	pH	6.1	6.5	6.4
4.	Melting point	60-61°C	62-64°C	60-66°C
5.	Breaking point	190 gm	140 gm	-
6.	Skin irritating test	No	No	No

CONCLUSION

Now a day when cosmetics offers artificial and chemical ingredients at sky rocking prizes as well as several adverse effects, herbal cosmetics carry goodness of natural alternatives with it herbal products. This ecofriendly, herbal lipstick is made from natural plant extract that promises to rejuvenate and revitalize skin with freshness. An Herbal lipstick is used

rejuvenate the lips muscles maintain the elasty of the skin, remove adhered dirt particles and improve the blood circulation. The benefits based cosmetics are their nontoxic nature.

This lipstick supplies vital nourishment to the lip. It helps in the elimination of wrinkles, cracking, dryness and folds on lips. wrinkles, fine lines, can be effectively controlled by using natural lips. In this work, we found excellent properties of the herbal lipstick and further studies are needed to be performed to ascertain more useful benefits of herbal lipstick as cosmetics.

ACKNOWLEDGEMENT

It is privilege express gratitude to our project guide Mr. Baburao N. Chandakavthe (Assistant Professor of Pharmaceutics). Authors are thankful to Principal and management of D.S.T.S Mandal's College of Pharmacy, Solapur for providing all facilities to complete this work successfully.

REFERENCE

1. Aboli Bornare, Tejasvi Tribhuwan, Shrutik Magre, Aishwarya Shinde, swati Tarkase. Formulation and Evaluation of Herbal Lipstick. International Journal of Creative Research Thoughts, 2020; 8: 2320-2882.
2. Richa Kothari, Bhavya Shukla. Formulation and Evaluation of Herbal Lipstick from natural edible coloring matter. International Journal of Theoretical and applied sciences, 2018; 10(1): 17-20.
3. Nileshwari P. Chaudhari, Namarata U. Chaudhari, Harshada A. Chaudhari, Laxmi A. Permchandani, Amitkumar R. Dhankani, Dr. Sunil P. Pawar. A Review On Herbal Lipstick From Different Natural Colouring Pigment, 2018; 6(3): 174-179.
4. Sharma P.P Cosmetics-Formulation and quality control, 3rd edition, Vandana Publications, 2005; 35-54.
5. Acharaya Deepak, Shrivastava Anshu, Indigenous Medicine, Trbal Formulation and Traditional Herbal Practices, Avishkar Publisher Distributor, Jaipur, India, 2008; 421.